

PRODUCTION OF ALPHA-OLEFIN OLIGOMER

Patent number: JP8239330
Publication date: 1996-09-17
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Classification:
- international: C07C11/02; B01J31/14; C07C2/30; C08F4/69; C08F10/00; C07B61/00
- european:
Application number: JP19950068600 19950302
Priority number(s): JP19950068600 19950302

Abstract of JP8239330

PURPOSE: To obtain an α -olefin oligomer in high yield and selectivity by realizing selective trimerization of the α -olefin using a specific chromium catalyst in the presence of a specific amount of water. **CONSTITUTION:** Using, as a chromium catalyst, a catalyst system comprising (a) a chromium compound such as chromium (III) 2-ethylhexanoate; (b) at least one selected from amines, amides and imides such as 2,5-dimethylpyrrol and (c) an alkylaluminum such as triethylaluminum, an α -olefin such as ethylene is reacted in the presence of water at 0-250 deg.C under normal pressure to 250kg/cm² for 1 minute to 20 hours. The amount of the water is 0.01-1.5 mole based on the compound (c). The molar ratio of the catalyst components is a:b:c=1:(0.1-10):(1-100). In a preferred embodiment, α -olefin is reacted with a chromium catalyst in such a state that the component (a) does not contact with the composition (c).

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